CLAIMS

1. A multicast streaming service method, in a UPnP AV network control method of performing a streaming transmission for playing media by having a media server MS, multiple media renderers MR and a control point CP controlling the media server and the renderers, comprising the steps in which:

the control point confirms contents and invokes a multicast streaming start action to the media server;

the media server informs the control point of a multicast group address for receiving the corresponding contents;

the control point informs the multiple media renderers of the multicast group address; and

the multiple media renderers join the multicast group address, confirm the multicast address and receive the corresponding contents.

2. The method of claim 1, comprising the step in which the media server starts the multicast streaming of the contents before the control point informs the multiple media renderes of the multicast group address.

3. The method of claim 1, comprising the step in which the media server starts the multicast streaming of the corresponding contents after a lapse of a predetermined time after informing

the control point of the multicast group address so that the multiple media renderers can confirm the multicast group address and then receive the corresponding contents from the control point.

5   4. The method of claims 1, 2 and 3, wherein the multicast group address is a RTSP URL, the RTSP URL being in the form of rtsp://ipaddress/path.

5. The method of claim 1, comprising the step of finishing the reception of multicast contents if 'Leave()' action invoking is recognized.

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6. A multicast streaming service method, in a UPnP AV network control method of performing a streaming transmission for playing media by having a media server MS, comprising the step of informing of

15   a multicast group address if multicast start action is recognized and multicast streaming corresponding contents to the multicast address using a RTSP server.

7. A multicast streaming service method, in a UPnP AV network

20   control method of performing media playing by having multiple media renderers MR, comprising the steps of:

confirming if contents are multicast or not;

receiving a multicast group address if the presence of multicasting is confirmed; and

25   joining   the   multicast   group   address,   confirming   the

multicast address and receiving the corresponding multicast contents.

8. A multicast streaming service system, comprising:

a media server MS providing a multicast group address and

5   multicasting corresponding contents to a multicast address using a

RTSP server;

multiple media renderers MR joining the RTSP server to confirm

the multicast address and playing the contents transmitted to the

multicast address; and

10   a control point CP confirming the contents to be multicast,

invoking a multicast start action to the media server and informing the

multiple media renderers of the multicast group address provided from

the media server.

15   9. The system of claim 8, wherein the media server starts

multicasting of the corresponding contents right after transmission of

the multicast group address to the control point.

10. The system of claim 8, wherein the media server starts

20   multicasting of the corresponding contents after a lapse of a

predetermined time since the transmission of the multicast group

address.

11. The method of claims 8, 9 and 10, wherein the multicast

25   group address is a RTSP URL,   the RTSP URL being in the form of

rtsp://ipaddress/path.

12. A multicast streaming service method, in a UPnP AV network control method of performing a streaming transmission for playing media, comprising a media server informing of a multicast group address if multicast start action is recognized and multicast-streaming corresponding contents to the multicast address using a RTSP server.

13. A multicast streaming service method, in a UPnP AV network control method of performing a streaming transmission for playing media, comprising multiple media receiving a multicast group address if the presence of multicasting is confirmed, joining the multicast group address, confirming the multicast address and receiving the corresponding multicast contents.

14. The system of 14, wherein the multiple renderers finish the reception of multicast contents if 'Leave()' action invoking is recognized.